

# TEST REPORT

**Product Name : Camera Hub G5 Pro (Wi-Fi)**  
**Model Number : CH-C07E, CH-C07D**

Prepared for : Lumi United Technology Co., Ltd.  
Address : Room 801-804, Building 1, Chongwen Park, Nanshan  
iPark, No. 3370, Liuxian Avenue, Fuguang Community,  
Taoyuan Residential District, Nanshan District,  
Shenzhen, China

Prepared by : EMTEK (SHENZHEN) CO., LTD.  
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Report Number : ENS2411080085W02201R  
Date(s) of Tests : November 12, 2024 to November 20, 2024  
Date of issue : November 23, 2024



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APPENDIX (Photos of the EUT)

## TEST REPORT DESCRIPTION

Applicant : Lumi United Technology Co., Ltd.  
Address : Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China  
Manufacturer : Lumi United Technology Co., Ltd.  
Address : Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China  
Trade Mark : Aqara  
EUT : Camera Hub G5 Pro (Wi-Fi)  
Model Number : CH-C07E, CH-C07D

### Measurement Procedure Used:

AS/NZS CISPR 32: 2015+A1:2020 Electromagnetic compatibility of multimedia equipment – Emission requirements

The device described above is tested by EMTEK (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to AS/NZS CISPR 32 requirements. The measurement results are contained in this test report and EMTEK (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these measurements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (SHENZHEN) CO., LTD.

Date of Test :

November 12, 2024 to November 20, 2024

Prepared by :



Una Yu/Editor

Reviewer :



Joe Xia /Supervisor

Approve & Authorized Signer :

Lisa Wang/Manager



## Modified Information

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2411080085W02201R	/	Original Report



## 1. SUMMARY OF TEST RESULT

EMISSION				
Description of Test Item		Standard	Limits	Results
Conducted Emissions From the AC Mains Power Ports		AS/NZS CISPR 32: 2015+A1:2020	Class B	Pass
Asymmetric mode conducted emissions	Wired network ports	AS/NZS CISPR 32: 2015+A1:2020	Class B	N/A
	Optical fibre ports	AS/NZS CISPR 32: 2015+A1:2020	Class B	N/A
	Broadcast receiver tuner ports	AS/NZS CISPR 32: 2015+A1:2020	Class B	N/A
	Antenna ports	AS/NZS CISPR 32: 2015+A1:2020	Class B	N/A
Conducted differential voltage emissions	TV broadcast receiver tuner ports	AS/NZS CISPR 32: 2015+A1:2020	Class B	N/A
	RF modulator output ports	AS/NZS CISPR 32: 2015+A1:2020	Class B	N/A
	FM broadcast receiver tuner ports	AS/NZS CISPR 32: 2015+A1:2020	Class B	N/A
Radiated emissions at frequencies up to 1 GHz		AS/NZS CISPR 32: 2015+A1:2020	Class B	Pass
Radiated emissions at frequencies above 1 GHz		AS/NZS CISPR 32: 2015+A1:2020	Class B	Pass
Radiated emissions from FM receivers		AS/NZS CISPR 32: 2015+A1:2020	Table A.6	N/A
Outdoor units of home satellite receiving systems		AS/NZS CISPR 32: 2015+A1:2020	Table A.7	N/A
Note: N/A is an abbreviation for Not Applicable.				

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

EUT : Camera Hub G5 Pro (Wi-Fi)

Model Number : CH-C07E, CH-C07D

Sample : 1#

Power Supply : 5V 2A

Applicant : Lumi United Technology Co., Ltd.

Address : Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

Manufacturer : Lumi United Technology Co., Ltd.

Address : Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

Date of Received : November 11, 2024

Date of Test : November 12, 2024 to November 20, 2024

### 2.2. Independent Operation Modes

A. On

1. BT mode
2. 2.4G WIFI mode
3. 5G WIFI mode
4. ZIGBEE mode
5. THREAD mode

### 2.3. Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Conducted disturbance at mains Terminals	AC 230V/50Hz	Mode A	Mode A.5
Radiated emissions at frequencies up to 1 GHz	AC 230V/50Hz	Mode A	Mode A.5
Radiated emissions at frequencies above 1 GHz	AC 230V/50Hz	Mode A	Mode A.1

## 2.4. Description of Support Device

/                    /                    /

## 2.5. Description of Test Facility

### Site Description

Name of Firm : EMTEK (SHENZHEN) CO., LTD.  
Site Location : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China



## 2.6. Measurement Uncertainty

Test Item	Uncertainty
Conducted Emission Uncertainty	: 2.08dB(9k~150kHz Conduction 1#) 2.40dB(150k~30MHz Conduction 1#)
Conducted Emission Uncertainty	: 3.16dB(9k~150kHz Conduction 2#) 2.90dB(150k~30MHz Conduction 2#)
Power clamp	: 2.53dB
Electromagnetic Radiated Emission(3-loop)	: 3.7dB
Radiated Emission Uncertainty (3m 1# Chamber)	: 4.46dB (30M~1GHz Polarize: H) 5.04dB (30M~1GHz Polarize: V) 4.92dB (1~6GHz) 5.12dB (6~18GHz)
Radiated Emission Uncertainty (3m 3# Chamber)	: 4.40dB (30M~1GHz Polarize: H) 5.04dB (30M~1GHz Polarize: V) 4.94dB (1~6GHz) 5.34dB (6~18GHz)
Radiated Emission Uncertainty (10m Chamber)	: 4.58dB (30M~1GHz Polarize: H) 4.54dB (30M~1GHz Polarize: V)
Uncertainty for Flicker test	: 0.07%
Uncertainty for Harmonic test	: 1.8%
Uncertainty for C/S Test	: 1.45dB(Using CDN Test) 2.37dB(Using EM Clamp Test)
Uncertainty for R/S Test	: 2.10dB(80MHz-200MHz) 1.76dB(200MHz-1000MHz)
Uncertainty for test site temperature and humidity	: 0.6°C 4%

### 3. MEASURING DEVICE AND TEST EQUIPMENT

#### 3.1. For Conducted Emissions at AC Mains Power Ports

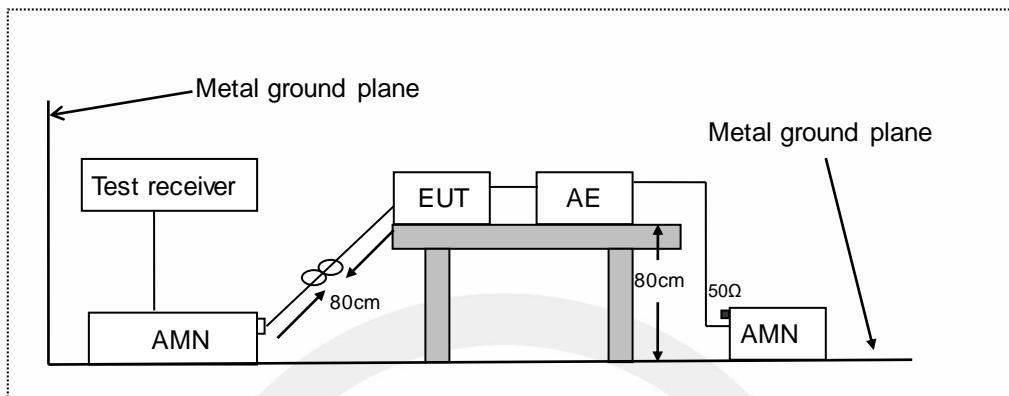
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESCI	101384	2024/5/11	1 Year
AMN	Rohde & Schwarz	ENV216	101161	2024/5/10	1 Year
AMN	Kyoritsu	KNW-407	8-1492-9	2024/5/11	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	2024/5/10	1 Year
PULSE LIMTER	Rohde & Schwarz	ESH3-Z2	100107	2024/5/10	1 Year
AMN	Rohde & Schwarz	ESH3-Z5	100191	2024/5/10	1 Year

#### 3.2. For Radiated Emission Measurement

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Pre-Amplifier	HP	8447F	2944A07999	2024/5/11	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCI	101414	2024/5/11	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	712	2023/7/2	2 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1178	2023/8/28	2 Year
Pre-Amplifie	SKET	LNPA_0118G-45	SK2019051801	2024/5/10	1 Year

## 4. CONDUCTED EMISSIONS FROM THE AC MAINS POWER PORTS

### 4.1. Block Diagram of Test Setup



AMN: Artificial Mains Network

AE: Associated equipment

EUT: Equipment under test

### 4.2. Measuring Standard

AS/NZS CISPR 32 Class B

### 4.3. Power Line Conducted Emission Limits

<b>Applicable to</b>				
1. AC mains power ports				
Table clause	Frequency range MHz	Coupling device	Detector type / bandwidth	Class B limits dB( $\mu$ V)
A10.1	0,15 to 0,5	AMN	Quasi Peak / 9 kHz	66 to 56
	0,5 to 5			56
	5 to 30			60
A10.2	0,15 to 0,5	AMN	Average / 9 kHz	56 to 46
	0,5 to 5			46
	5 to 30			50
Apply A10.1 and A10.2 across the entire frequency range.				

### 4.4. Test Procedure

The EUT was placed on a plank 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected

peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a artificial mains network (AMN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other AMN.

The AMN provides 50 ohm coupling impedance for the measuring instrument.

The CISPR states that the AMN with 50 ohm and 50 microhenry should be used.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation:

Emission Level (dB $\mu$ V) = AMN Factor (dB) + Cable Loss (dB) + Reading (dB $\mu$ V)

Margin (dB) = Emission Level (dB $\mu$ V) - Limit (dB $\mu$ V).

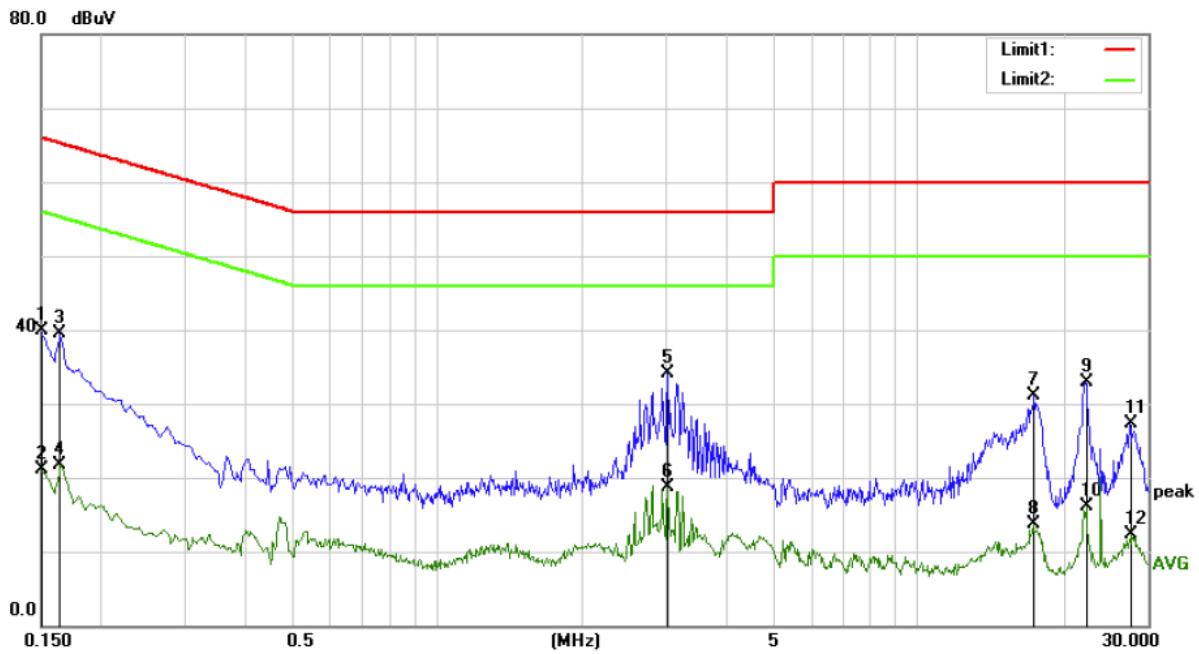
#### 4.5. Measuring Results

**PASS.**

The frequency range from 150kHz to 30MHz is investigated.

Please see the attached pages.

Temperature	:	23.3 °C
Humidity	:	47%
Atmospheric Pressure	:	101kpa
Test Engineer	:	Hailing Wang
Test Date	:	2024/11/14



Site Conduction 2#

Phase: L1

Temperature: 23.3

Limit: (CE)CISPR 32 class B\_QP

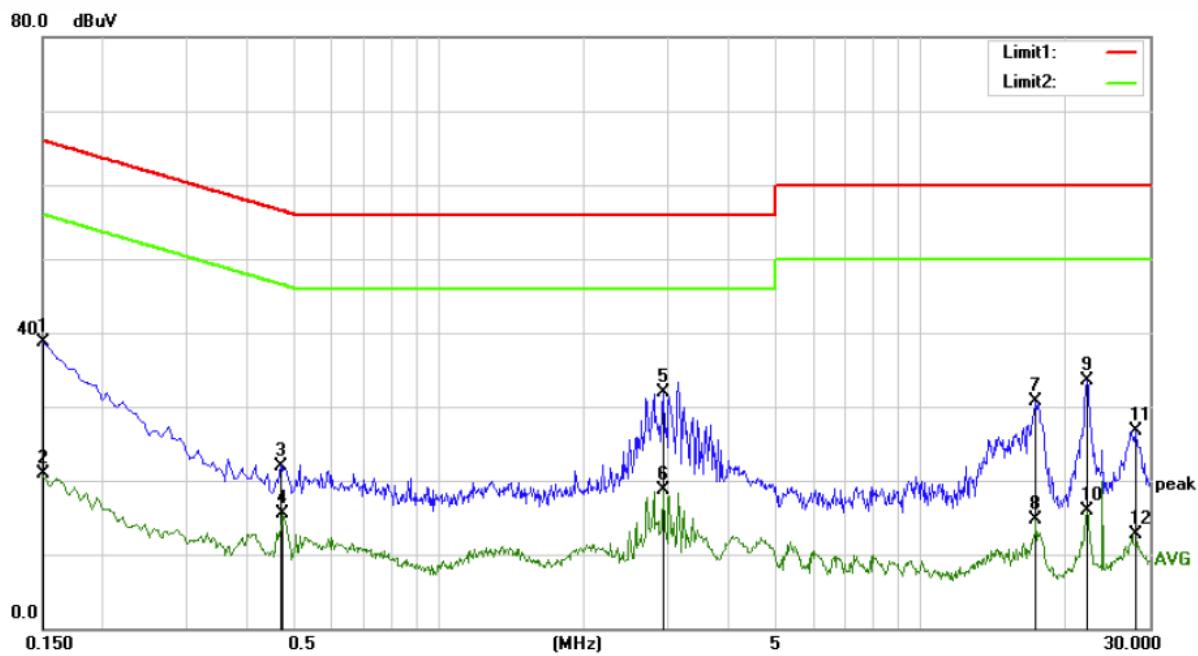
Power: DC 5V FROM adapter

Humidity: 47 %

Mode: Thread mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	29.25	10.67	39.92	66.00	-26.08	QP	
2		0.1500	10.48	10.67	21.15	56.00	-34.85	AVG	
3		0.1650	28.85	10.66	39.51	65.21	-25.70	QP	
4		0.1650	11.13	10.66	21.79	55.21	-33.42	AVG	
5	*	3.0150	23.52	10.53	34.05	56.00	-21.95	QP	
6		3.0150	8.23	10.53	18.76	46.00	-27.24	AVG	
7		17.4300	20.17	10.91	31.08	60.00	-28.92	QP	
8		17.4300	2.88	10.91	13.79	50.00	-36.21	AVG	
9		22.3300	21.72	11.21	32.93	60.00	-27.07	QP	
10		22.3300	4.83	11.21	16.04	50.00	-33.96	AVG	
11		27.7300	16.07	11.27	27.34	60.00	-32.66	QP	
12		27.7300	0.94	11.27	12.21	50.00	-37.79	AVG	



Site Conduction 2#

Phase: *N*

Temperature: 23.3

Limit: (CE) CISPR 32 class B QP

Power: DC 5V FROM adapter

Humidity: 47 %

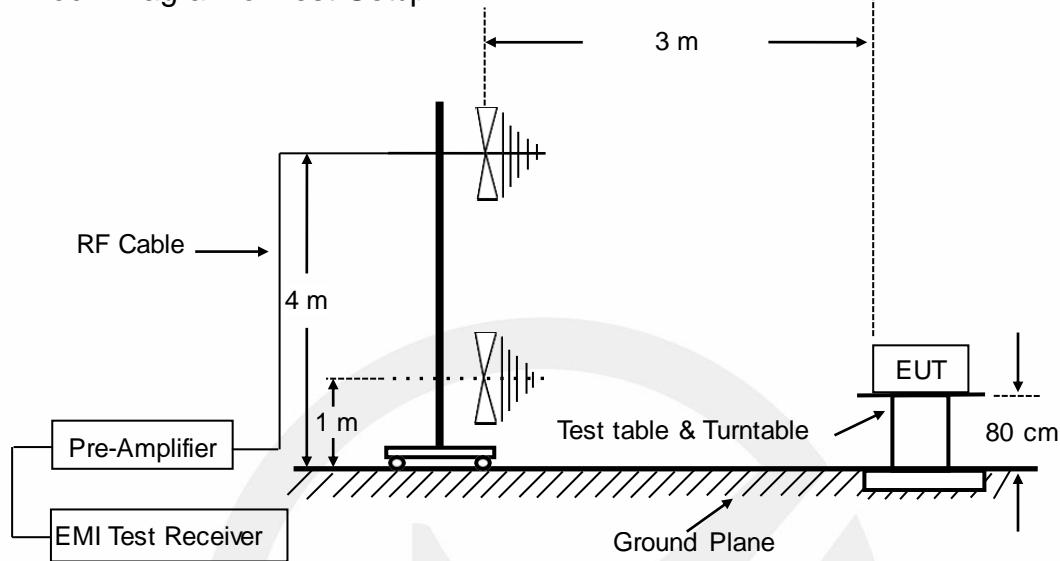
Mode: Thread mode

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	28.10	10.67	38.77	66.00	-27.23	QP	
2		0.1500	10.24	10.67	20.91	56.00	-35.09	AVG	
3		0.4700	11.34	10.66	22.00	56.51	-34.51	QP	
4		0.4750	4.83	10.66	15.49	46.43	-30.94	AVG	
5 *		2.9300	21.36	10.55	31.91	56.00	-24.09	QP	
6		2.9300	8.15	10.55	18.70	46.00	-27.30	AVG	
7		17.4300	19.86	10.91	30.77	60.00	-29.23	QP	
8		17.4300	3.76	10.91	14.67	50.00	-35.33	AVG	
9		22.2300	22.20	11.21	33.41	60.00	-26.59	QP	
10		22.2300	4.73	11.21	15.94	50.00	-34.06	AVG	
11		28.0550	15.44	11.26	26.70	60.00	-33.30	QP	
12		28.0550	1.46	11.26	12.72	50.00	-37.28	AVG	

## 5. RADIATED EMISSION MEASUREMENT (UP TO 1GHz)

### 5.1. Block Diagram of Test Setup



### 5.2. Radiated Limit

AS/NZS CISPR 32, Class B

Frequency range MHz	Measurement			Class B limits dB( $\mu$ V/m)
	Facility	Distance (m)	Detector type / bandwidth	
30 to 230	OATS/SAC	10	Quasi Peak / 120 kHz	30
230 to 1 000				37
30 to 230	OATS/SAC	3	Quasi Peak / 120 kHz	40
230 to 1 000				47

### 5.3. Test Procedure

The EUT was placed on a non-conductive table whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

The EUT was set 3 meters (or 10 meters) away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while

operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The bandwidth of the Receiver is set at 120 kHz.

Test results were obtained from the following equation:

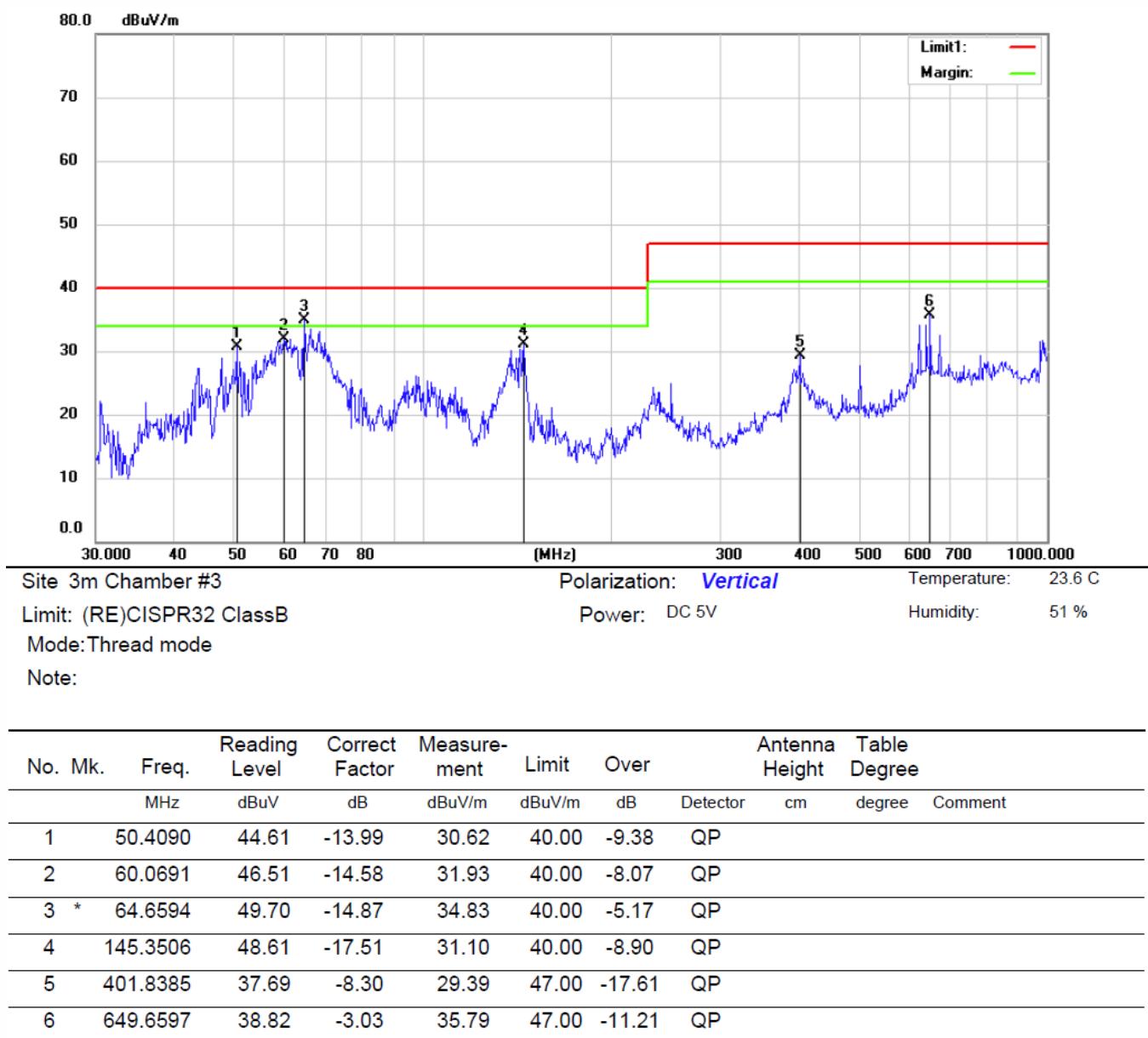
$$\begin{aligned}\text{Emission level (dB}\mu\text{V/m)} &= \text{Antenna Factor} - \text{Amp Factor} + \text{Cable Loss} + \text{Reading} \\ \text{Margin (dB)} &= \text{Emission Level (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m)}.\end{aligned}$$

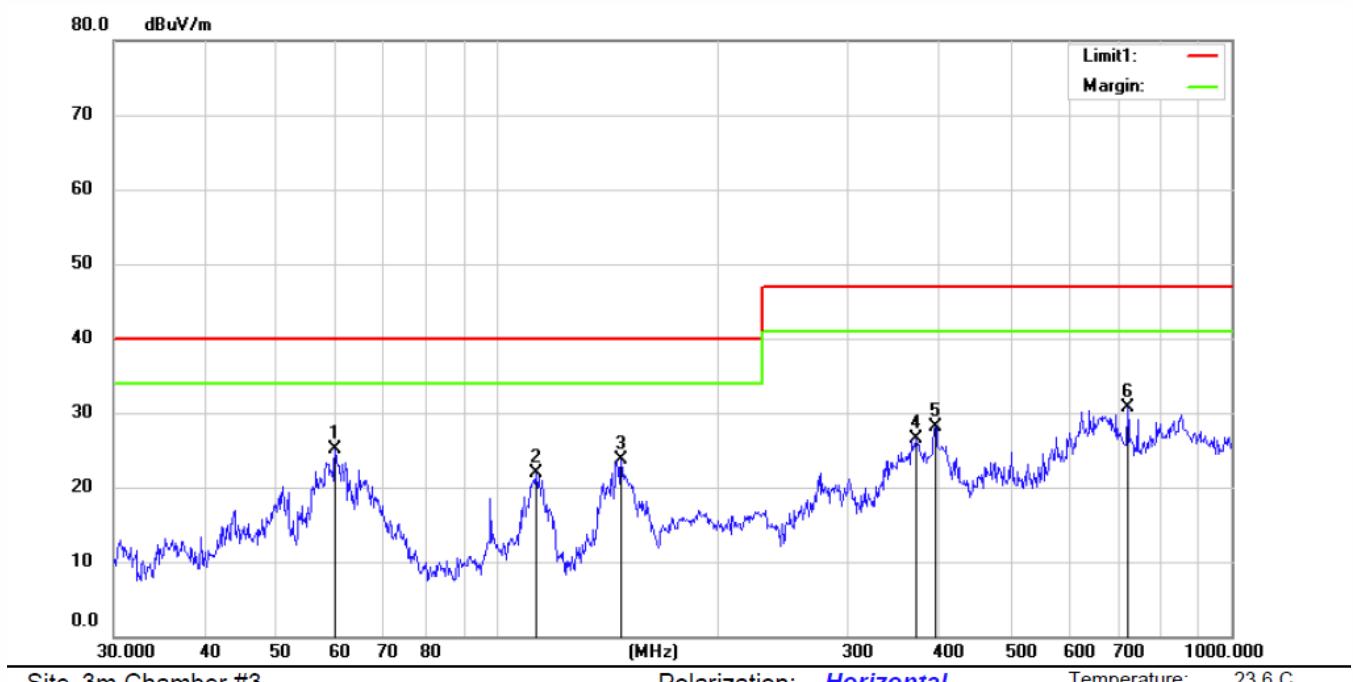
#### 5.4. Measuring Results

**PASS.**

The frequency range from 30MHz to 6GHz is investigated.  
Please see the attached pages.

Temperature	:	23.6°C
Humidity	:	51%
Atmospheric Pressure	:	101kpa
Test Engineer	:	Tendie Liu
Test Date	:	2024/11/15





Site 3m Chamber #3

Polarization: *Horizontal*

Temperature: 23.6 C

Limit: (RE) CISPR32 ClassB

Power: DC 5V

Humidity: 51 %

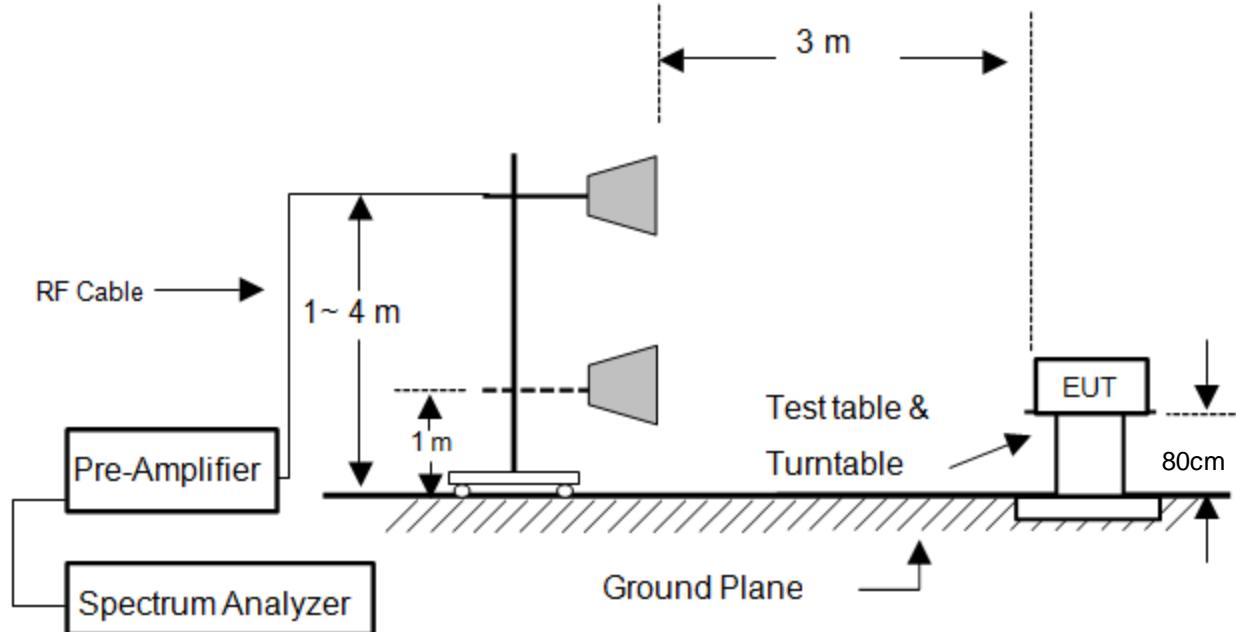
Mode: Thread mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	60.0691	39.70	-14.58	25.12	40.00	-14.88	QP		
2		112.9196	38.31	-16.32	21.99	40.00	-18.01	QP		
3		147.4036	41.10	-17.37	23.73	40.00	-16.27	QP		
4		372.0045	35.45	-8.95	26.50	47.00	-20.50	QP		
5		394.8545	36.67	-8.47	28.20	47.00	-18.80	QP		
6		721.7260	31.92	-1.30	30.62	47.00	-16.38	QP		

## 6. RADIATED EMISSION MEASUREMENT (ABOVE 1GHz)

### 6.1. Block Diagram of Test Setup



### 6.2. Radiated Limit

AS/NZS CISPR 32, Class B

Frequency range (MHz)	Measurement			Class B limits dB( $\mu$ V/m)
	Facility	Distance (m)	Detector type/ bandwidth	
1000 to 3000	FSOATS	3	Average / 1 MHz	50
3000 to 6000				54
1000 to 3000			Peak / 1 MHz	70
3000 to 6000				74

Note: The highest internal source of an EUT is defined as the highest frequency generated or used within the EUT or on which the EUT operates or tunes. If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 6 GHz, whichever is less.

### 6.3. Test Procedure

The EUT was placed on a non-conductive table whose total height equaled 80cm. All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units. Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

The EUT was set 3 meters away from the receiving antenna that was mounted on a non-conductive mast. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level.

The turntable can rotate 360 degree to determine the position of the maximum emission level.

The initial testing identified the frequency that has the highest disturbance relative to the limit while operating the EUT in typical modes of operation and cable positions in a test setup representative of typical system configuration.

The identification of the frequency of highest emission with respect to the limit was found by investigating emissions at a number of significant frequencies. The probable frequency of maximum emission had been found and that the associated cable and EUT configuration and mode of operation had been identified.

The frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz.

Test results were obtained from the following equation:

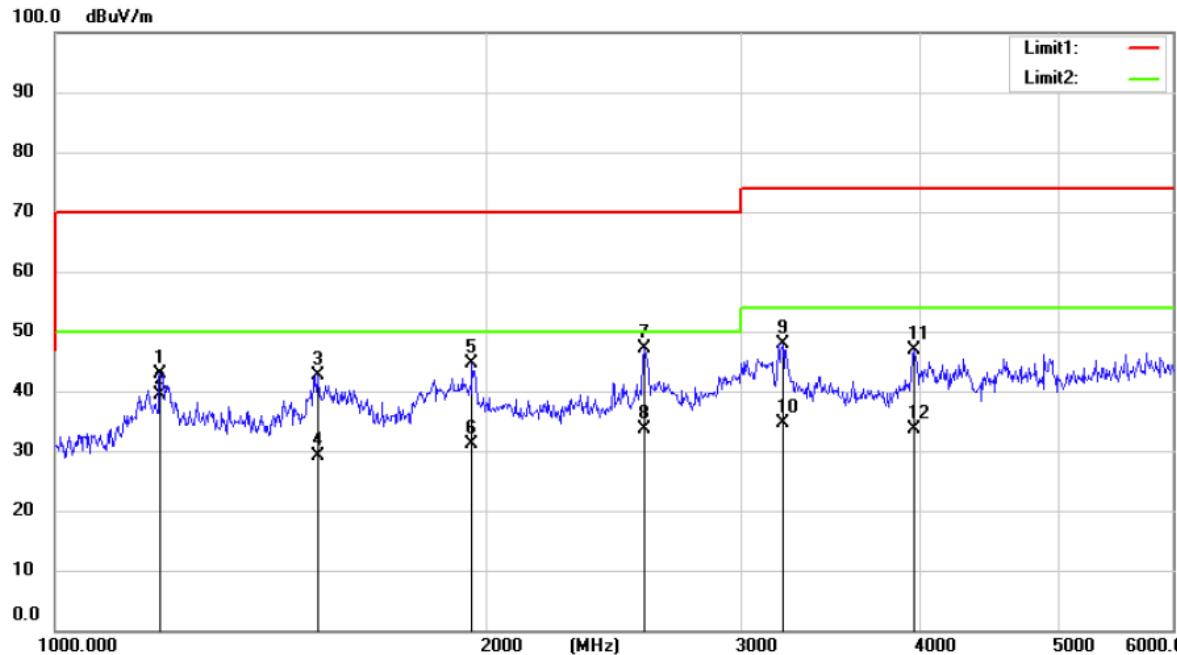
Emission level (dB $\mu$ V/m) = Antenna Factor -Amp Factor +Cable Loss + Reading Margin (dB) = Emission Level (dB $\mu$ V/m) - Limit (dB $\mu$ V/m)

### 6.4. Measuring Results

**PASS**

All the modes were tested and the data of the worst modes are attached the following pages.

Temperature	:	23.6°C
Humidity	:	51%
Atmospheric Pressure	:	101kpa
Test Engineer	:	Tendie Liu
Test Date	:	2024/11/16



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 23.6 C

Limit: (RE)CISPR32 ClassB

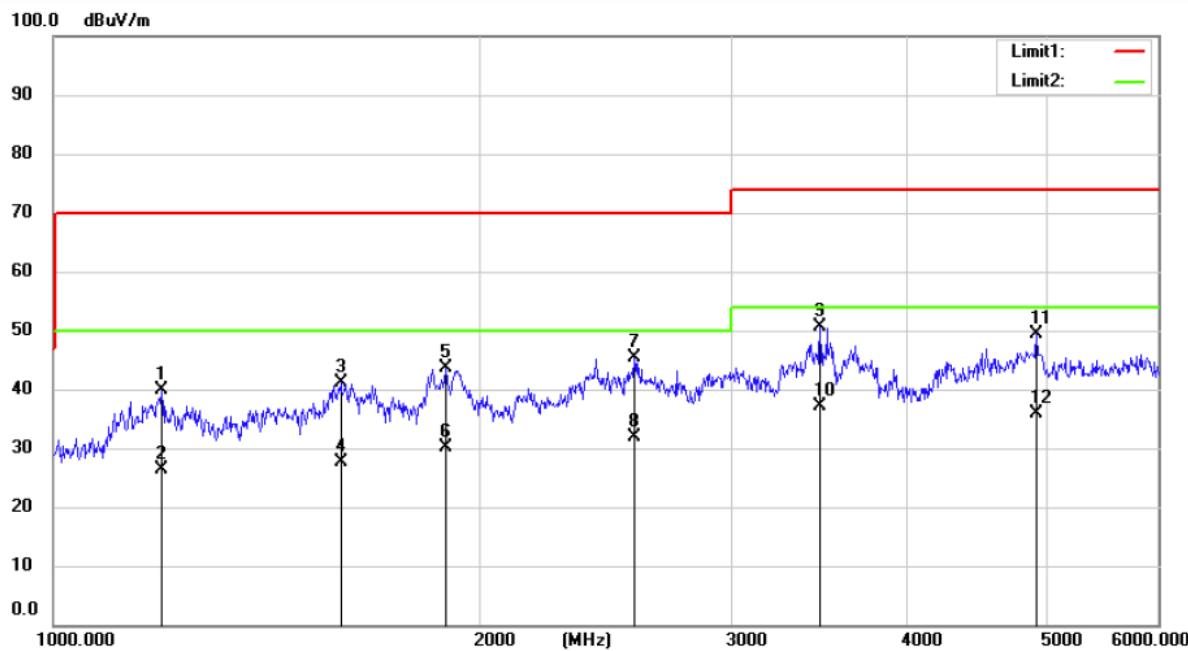
Power: DC 5V

Humidity: 51 %

Mode: BT mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		1183.440	57.98	-15.13	42.85	70.00	-27.15	peak			
2	*	1183.440	54.63	-15.13	39.50	50.00	-10.50	AVG			
3		1523.581	56.70	-14.07	42.63	70.00	-27.37	peak			
4		1523.581	43.27	-14.07	29.20	50.00	-20.80	AVG			
5		1950.969	55.00	-10.44	44.56	70.00	-25.44	peak			
6		1950.969	41.64	-10.44	31.20	50.00	-18.80	AVG			
7		2570.903	56.86	-9.81	47.05	70.00	-22.95	peak			
8		2570.903	43.51	-9.81	33.70	50.00	-16.30	AVG			
9		3210.528	56.24	-8.30	47.94	74.00	-26.06	peak			
10		3210.528	42.90	-8.30	34.60	54.00	-19.40	AVG			
11		3966.416	52.81	-5.86	46.95	74.00	-27.05	peak			
12		3966.416	39.56	-5.86	33.70	54.00	-20.30	AVG			



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 23.6 C

Limit: (RE)CISPR32 ClassB

Power: DC 5V

Humidity: 51 %

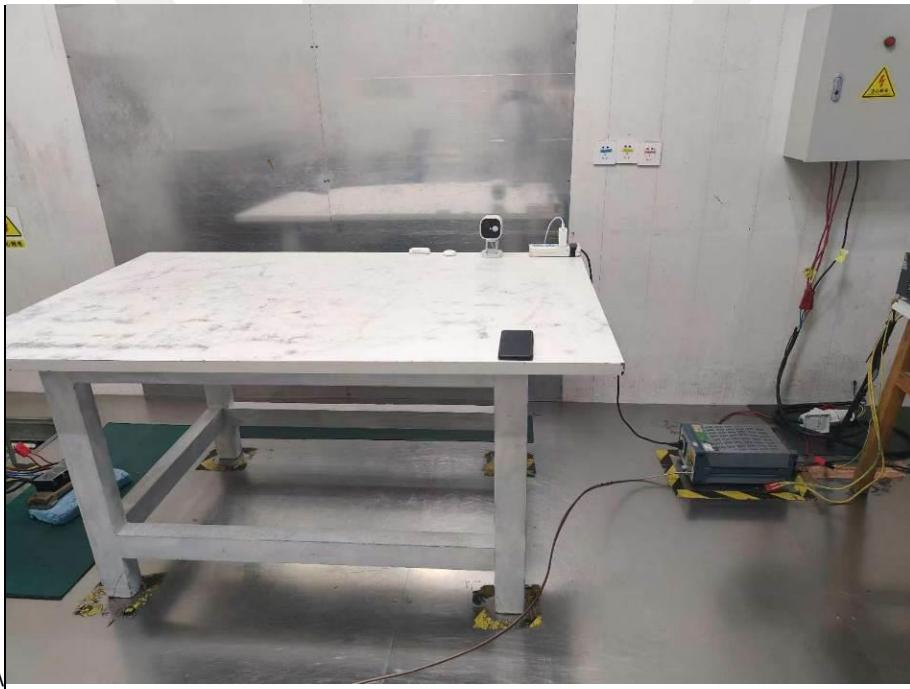
Mode: BT mode

Note:

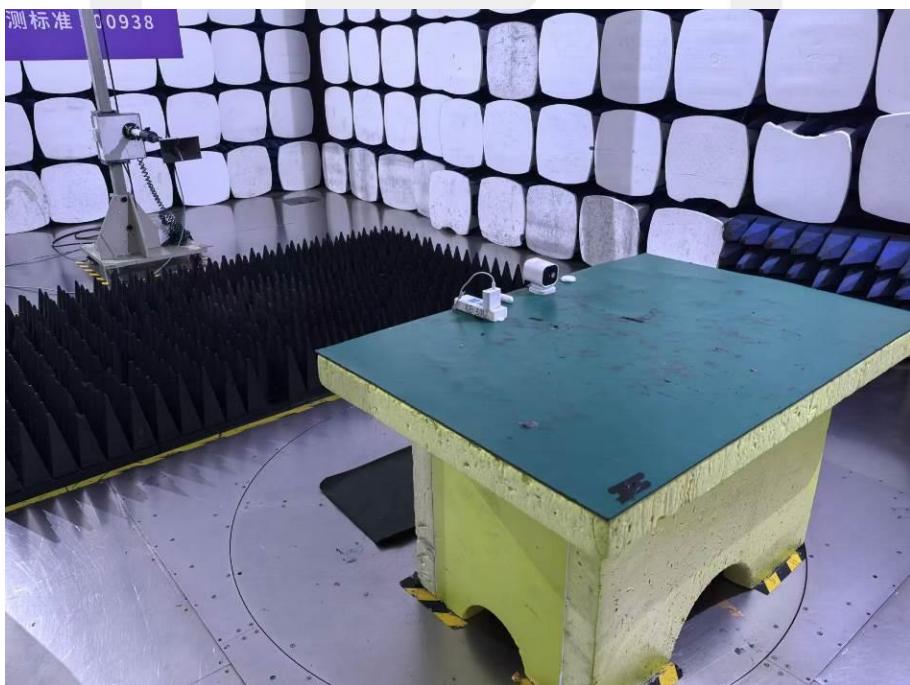
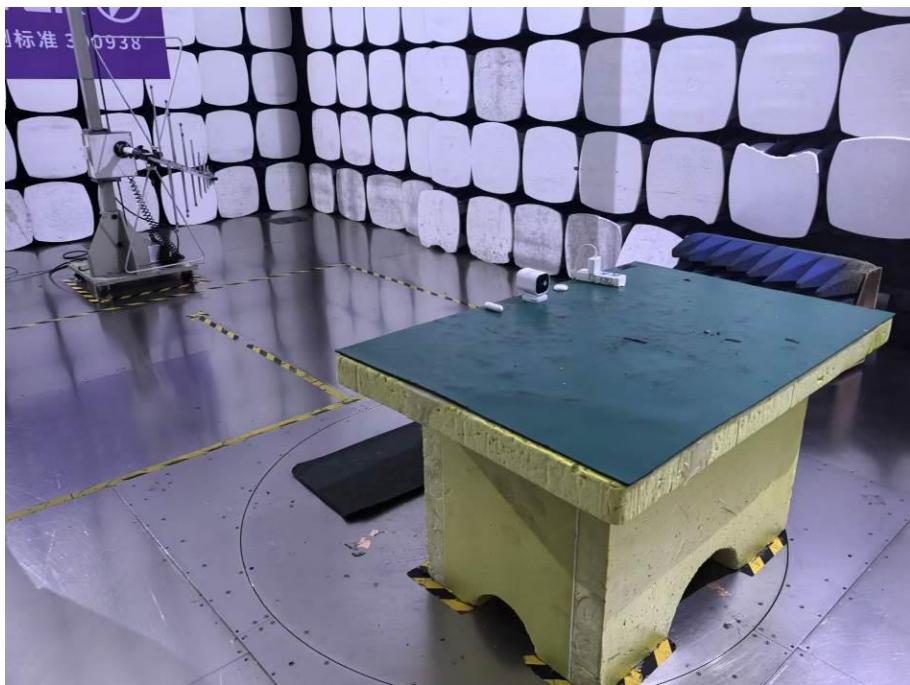
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment						
MHz			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	1191.952	54.88	-15.11	39.77	70.00	-30.23	peak				
2	1191.952	41.51	-15.11	26.40	50.00	-23.60	AVG				
3	1593.380	54.78	-13.71	41.07	70.00	-28.93	peak				
4	1593.380	41.41	-13.71	27.70	50.00	-22.30	AVG				
5	1889.051	53.05	-9.44	43.61	70.00	-26.39	peak				
6	1889.051	39.64	-9.44	30.20	50.00	-19.80	AVG				
7	2566.301	55.18	-9.83	45.35	70.00	-24.65	peak				
8	2566.301	41.73	-9.83	31.90	50.00	-18.10	AVG				
9	3467.664	58.58	-8.06	50.52	74.00	-23.48	peak				
10 *	3467.664	45.26	-8.06	37.20	54.00	-16.80	AVG				
11	4926.683	52.60	-3.28	49.32	74.00	-24.68	peak				
12	4926.683	39.18	-3.28	35.90	54.00	-18.10	AVG				

## 7. PHOTOGRAPHS

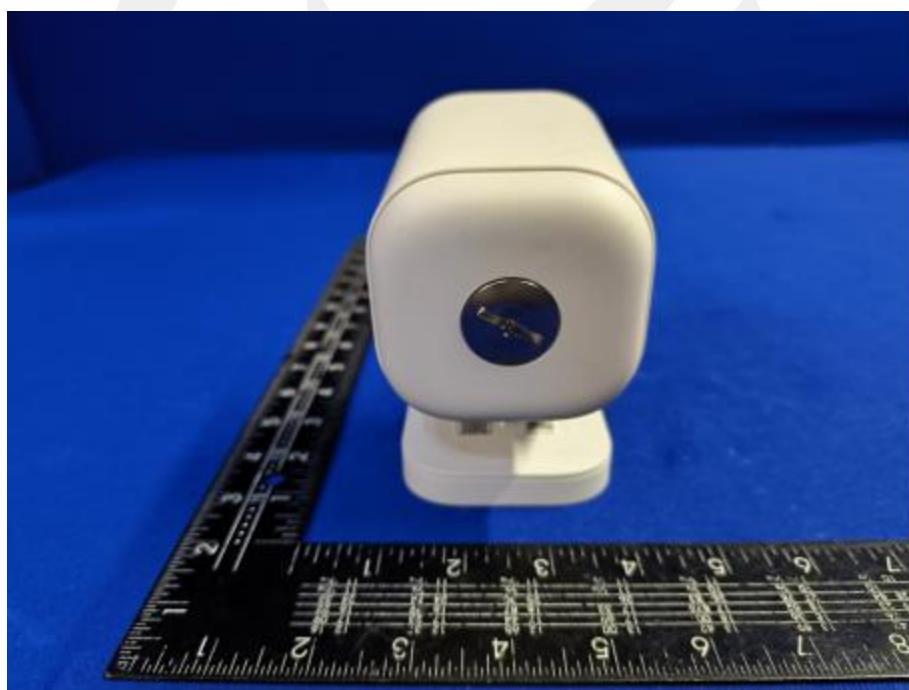
### 7.1. Photos of Power Line Conducted Emission Measurement

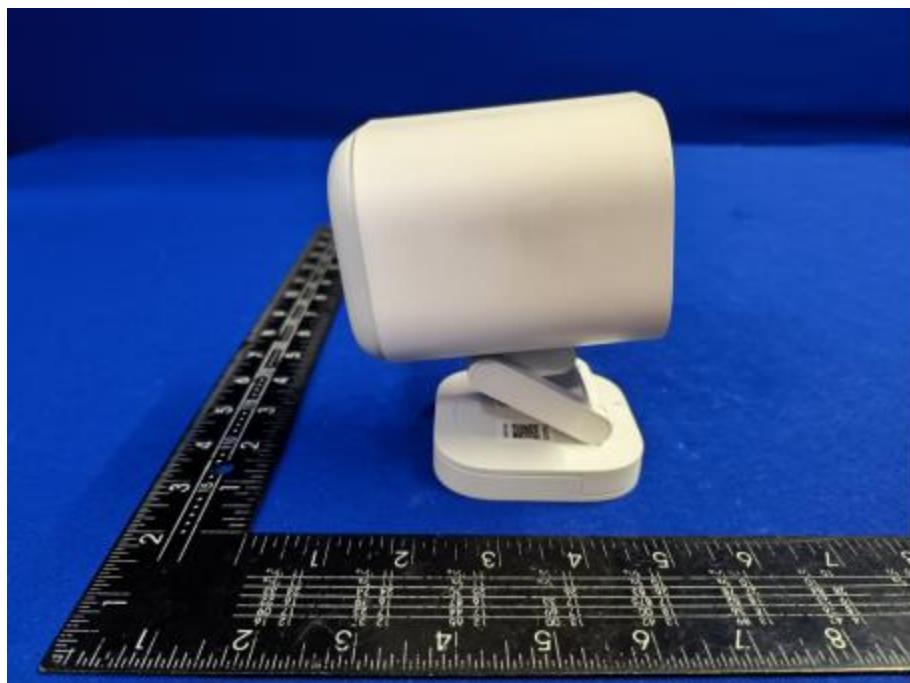


## 7.2. Photos of Radiated Emission Measurement

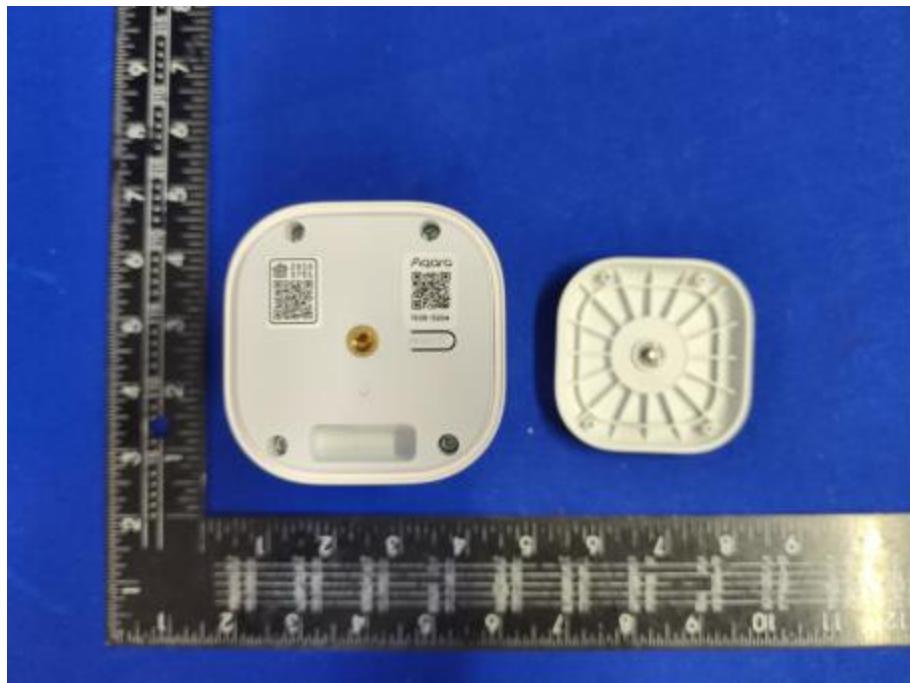


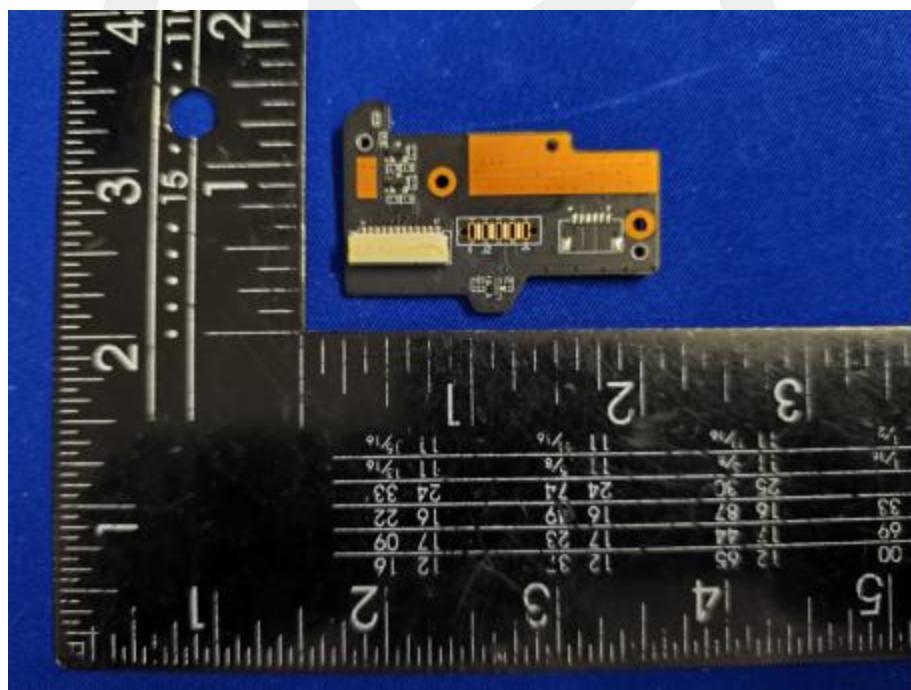
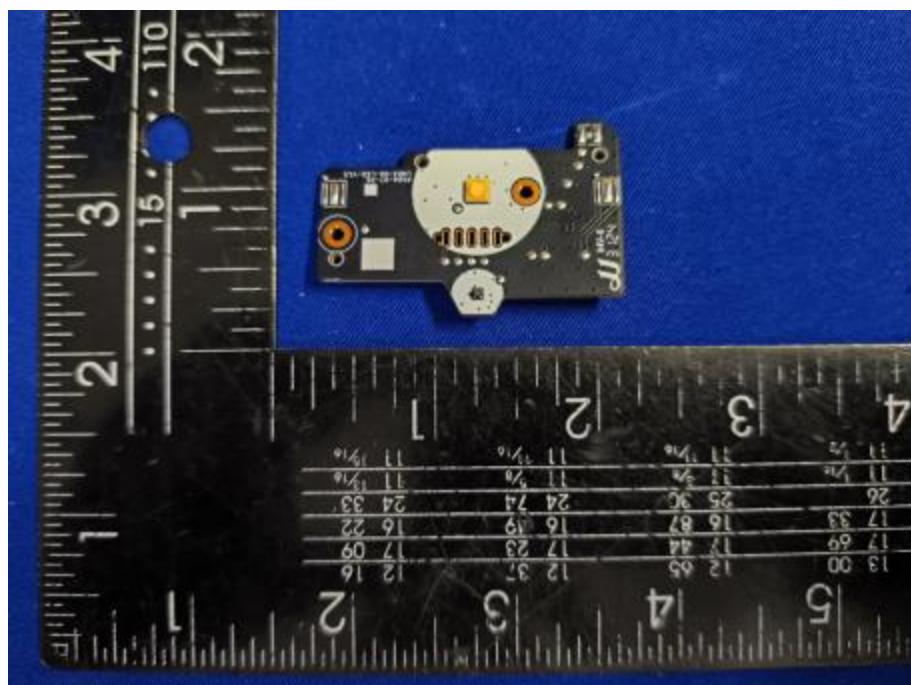
**APPENDIX: Photos of EUT**

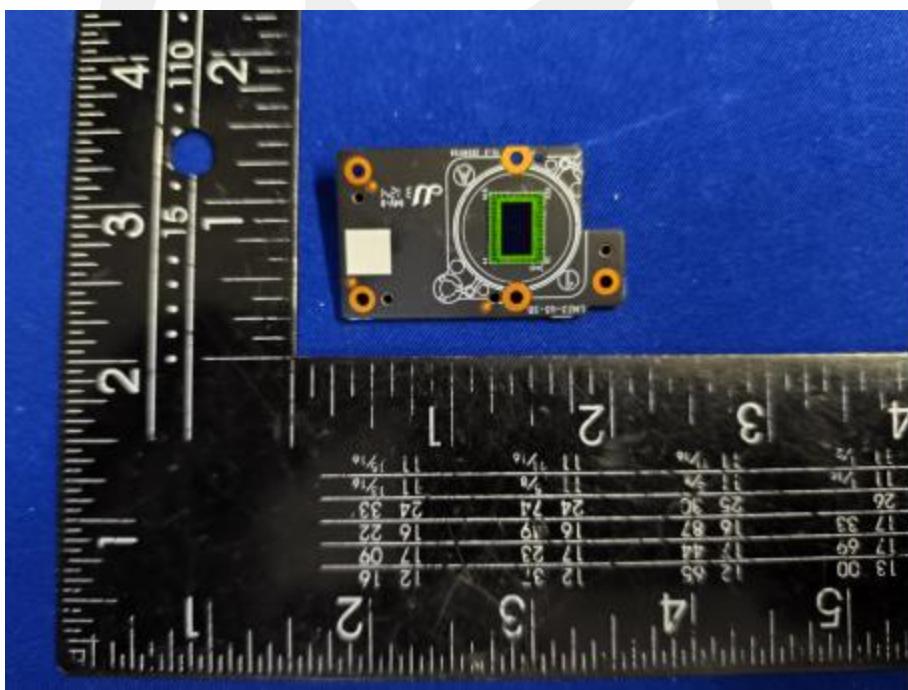
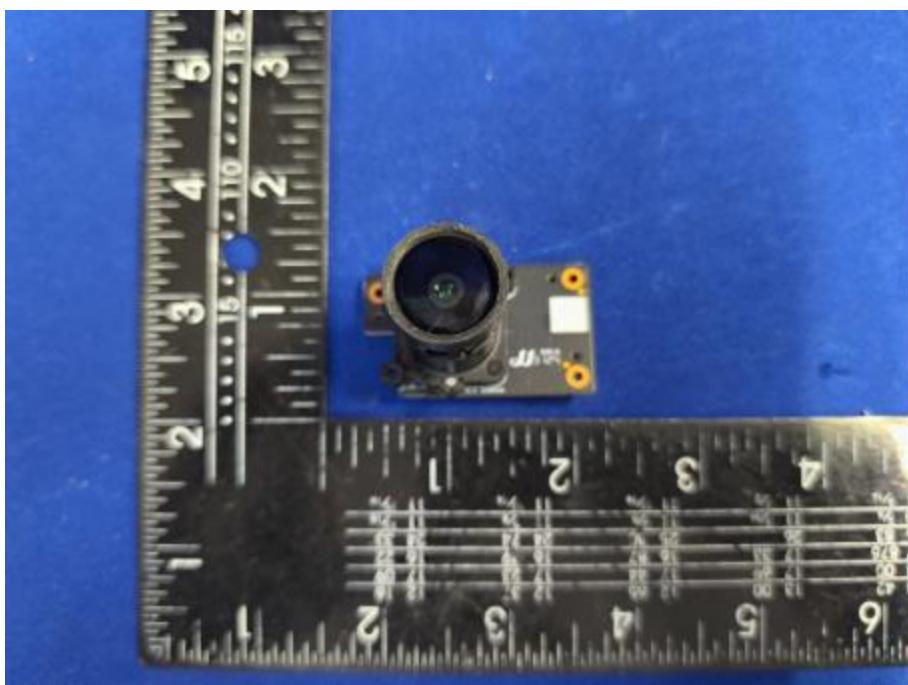


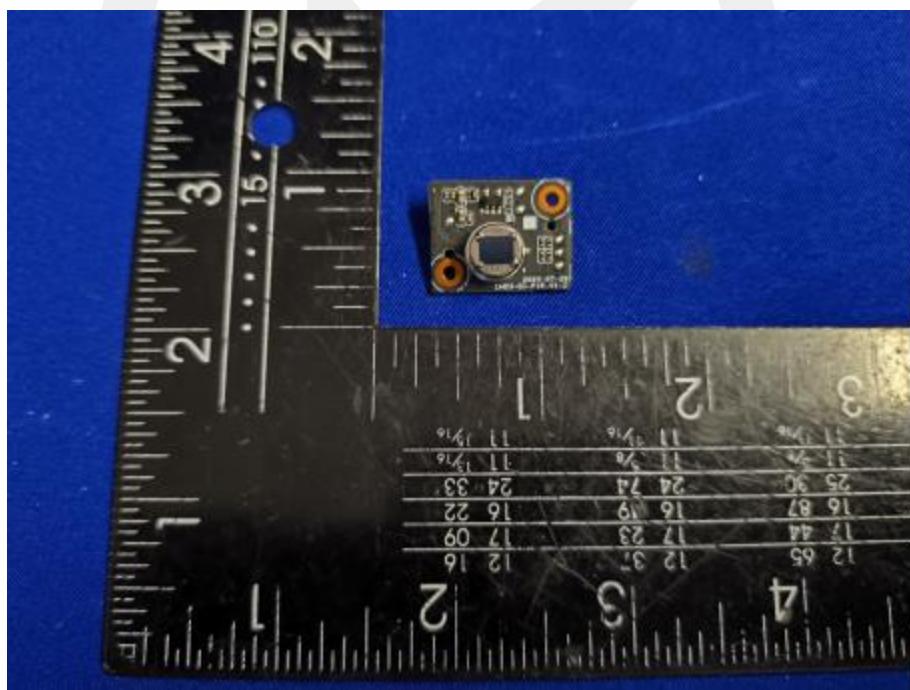
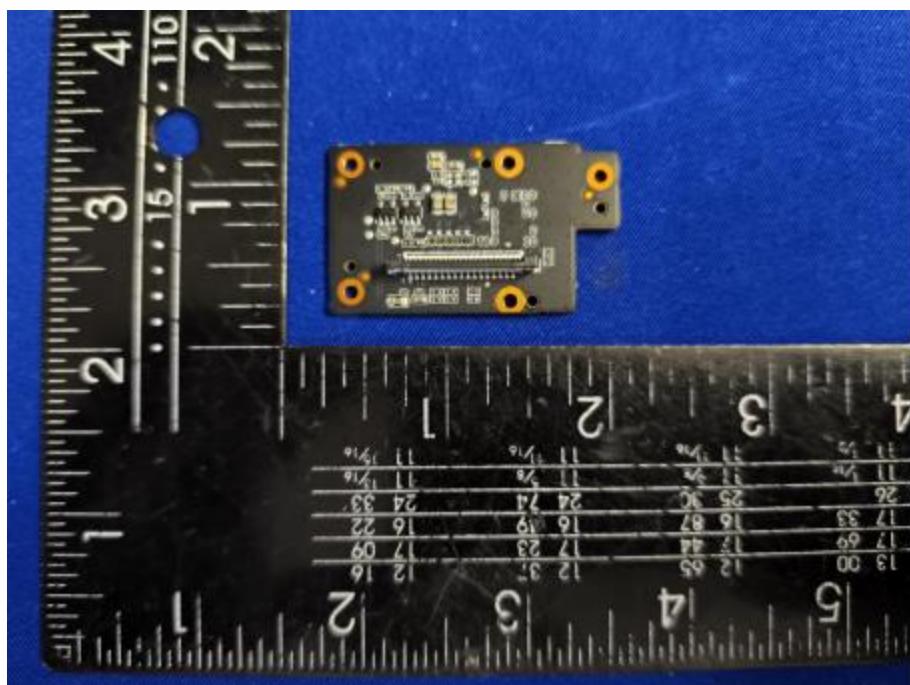


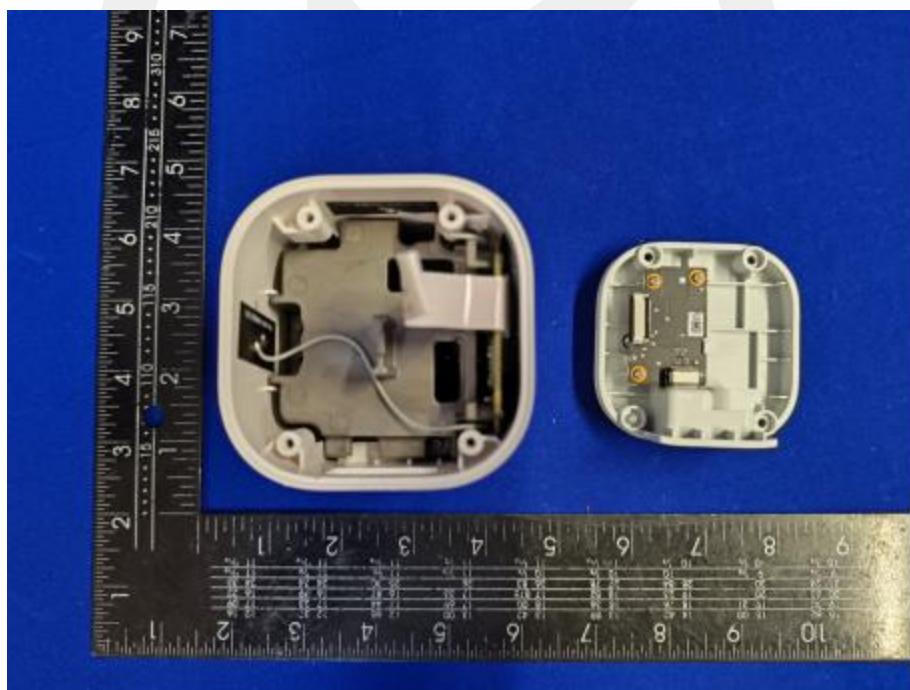
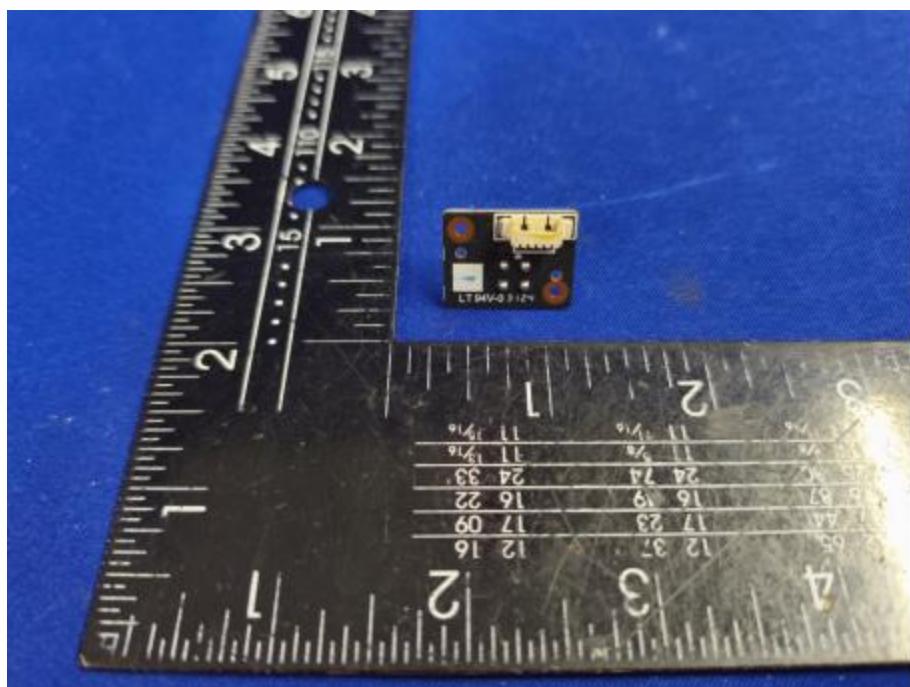




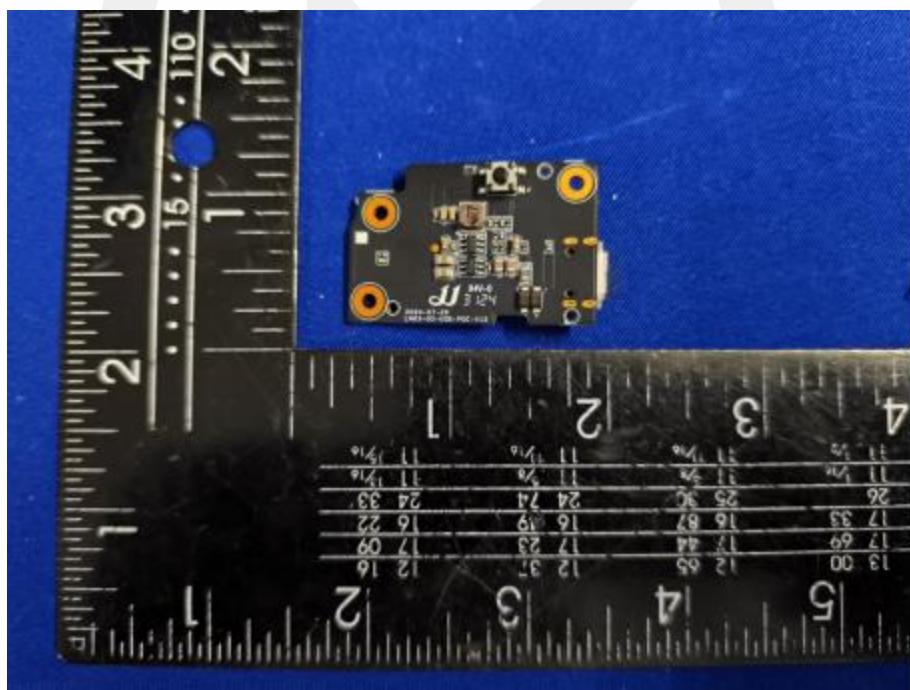
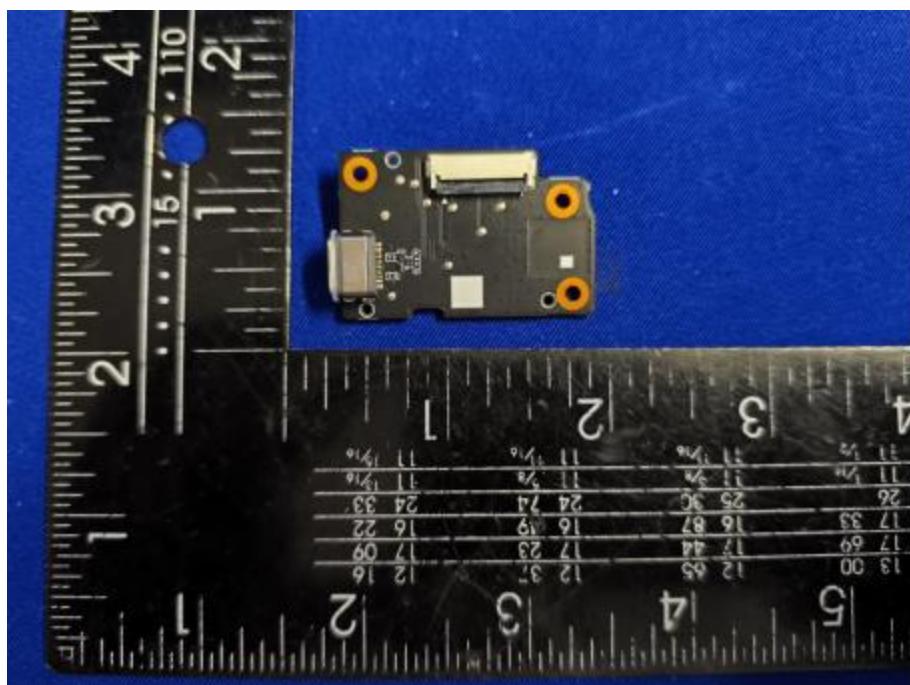


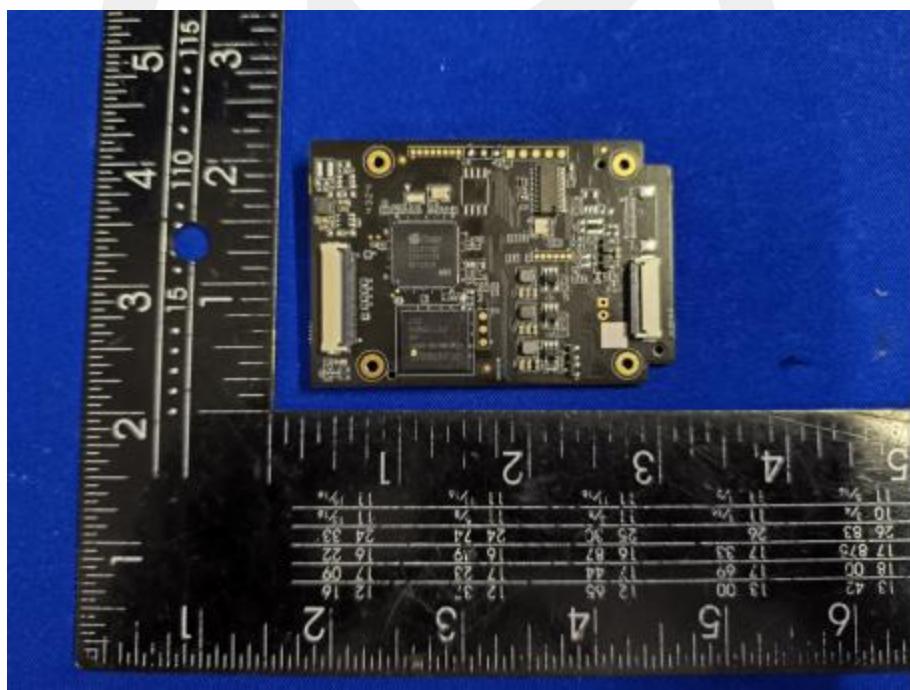
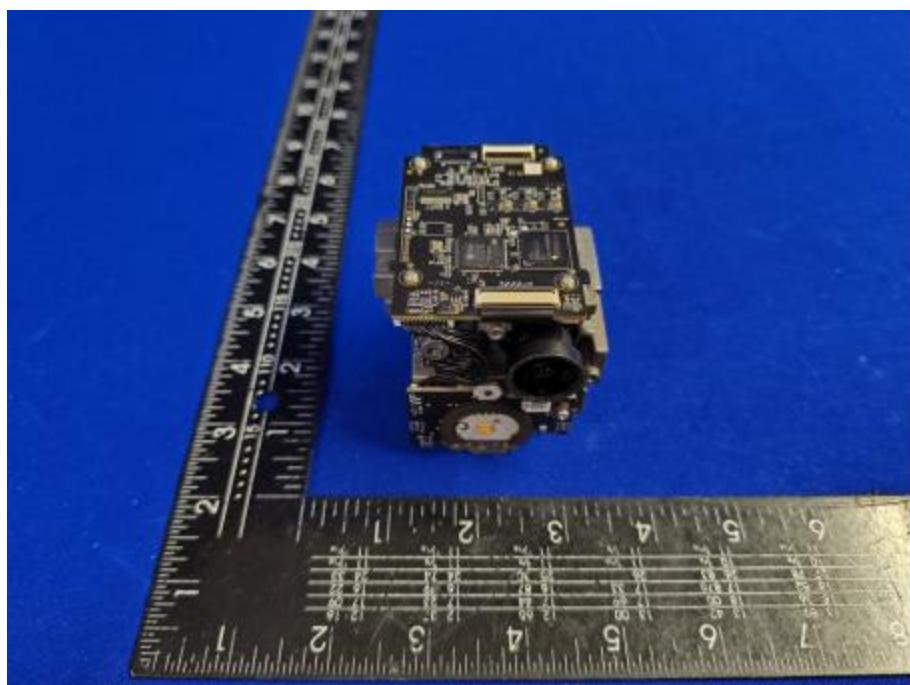


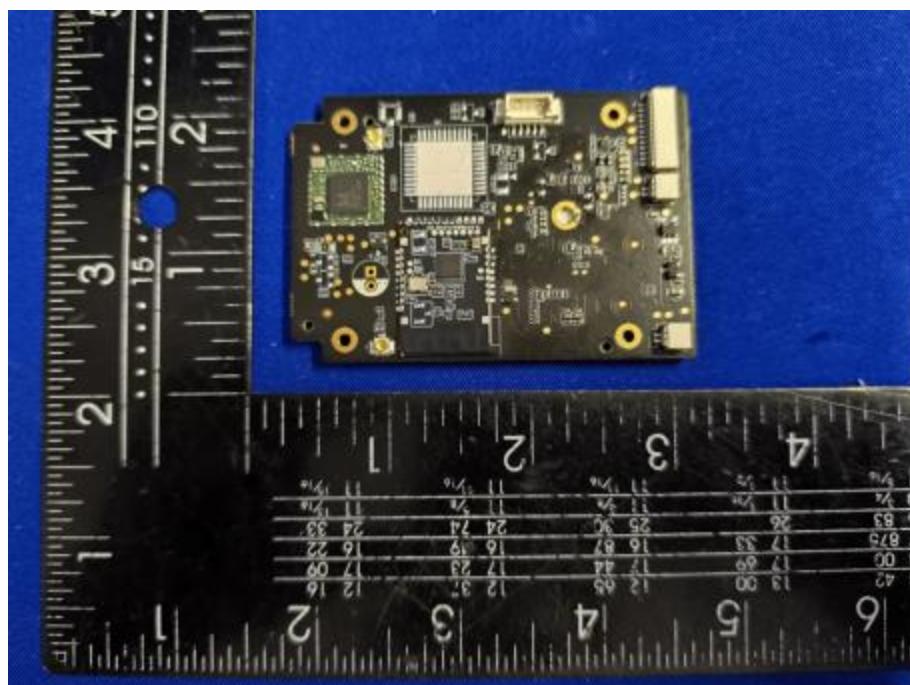












\*\*\*End of Report\*\*\*

## Statement

- 1 . This report will be void without authorized signature or special seal for testing report.
- 2 . This report shall not be copied partly without authorization.
- 3 . The test results or observations are applicable only to tested sample. Client shall be responsible for representativeness of the sample and authenticity of the material.
- 4 . The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
- 5 . The test results or observations are provided in accordance with measured value, without taking risks caused by uncertainty into account. Without explicit stipulation in special agreements, standards or regulations, EMTEK shall not assume any responsibility.
- 6 . Objections shall be raised within 20 days from the date receiving the report.